

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-18

Issued: 15 May 2022 / 0730L (1130Z)

Valid: 18 May 2022 / 0610 – 0710L (1010 – 1110Z)



Forecast Discussion: The high pressure area over the Atlantic Ocean will gradually drift away from the Florida Peninsula over the next few days as a frontal system moves into eastern US. Southerly winds will keep the temperatures elevated in Central Florida and allow daily sea breeze interactions to produce isolated showers and thunderstorms each afternoon and evening. The frontal system will push off the Eastern Seaboard on Monday, with the tail end of the front lagging into the Florida Panhandle. On Tuesday, the remnants of the boundary will stall mostly north of the Space Coast, but could add ingredients to enhance the shower and thunderstorm coverage and intensity. The high pressure area will begin to build back into the area on Wednesday, returning Central Florida to the daily cycle of sea breeze interaction. The Primary weather concern for a launch attempt Wednesday morning is the Cumulus Cloud Rule.

High pressure will continue to build into the area on Thursday, keeping conditions much the same as the previous day. The primary weather concern for Thursday morning remains the Cumulus Cloud Rule.

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	Probability of Violating Weather Constraints ¹										
Day	20%	20% Primary Concerns: Cumulus Cloud Rule									
ıch	Weather Conditions								Additional Risk Criteria ²		
aunch	Weather/Visi	bility:	None / 7 m	ni.	Туре	Clouds Coverage	S Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
	Temp/Humid	ity:	72°F / 90%	0	Cumulus	Few	3,000	10,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200'):	240° 8 - 12	2 mph					Solar Activity:	Low	
,	Probability of Violating Weather Constraints										
Delay	20% Primary Concerns: Cumulus Cloud Rule										
	Weather Conditions								Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi.			Туре	Cloud: Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
24	Temp/Humidity: 72°F / 90%			ó	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200') : 220° 8 - 12 mph							Solar Activity:	Low		
Notes	The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime during the launch window Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each include a second constraints.										
ž		See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information									